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**CONDUCTIVE COMPONENT FOR ELECTROCHEMICAL CELLS
AND A METHOD FOR ITS MANUFACTURE**

ABSTRACT OF THE DISCLOSURE

A conductive component for electrochemical cells is described, in particular for use as a bipolar plate in a fuel cell. The conductive component consists of a metal part provided with a doped diamond coating and/or with a 5 doped diamond-like carbon coating. This coating enables the component to be produced at favorable cost and nevertheless to satisfy the twin requirements of good corrosion resistance and high conductivity in the environment of an electrochemical cell. Methods for the manufacture of such a component by a CVD and/or by a PVD process are described and 10 claimed as are coatings consisting of doped diamond and/or doped diamond-like carbon.